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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/076,347	02/19/2002	Christopher J. Tatar	FS-00689	1368
7055	7590	03/14/2006	EXAMINER	
GREENBLUM & BERNSTEIN, P.L.C. 1950 ROLAND CLARKE PLACE RESTON, VA 20191				SHARMA, RASHMI K
ART UNIT		PAPER NUMBER		
		3651		

DATE MAILED: 03/14/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	10/076,347	TATAR ET AL.
	Examiner Rashmi K. Sharma	Art Unit 3651

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 21 February 2006.
 2a) This action is FINAL. 2b) This action is non-final.
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-22 and 24-27 is/are pending in the application.
 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
 5) Claim(s) _____ is/are allowed.
 6) Claim(s) 1-22 and 24-27 is/are rejected.
 7) Claim(s) _____ is/are objected to.
 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
 10) The drawing(s) filed on 19 February 2002 is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-9, 11, 14, 15 and 18-22, 24, 25 and 26 are rejected under 35 U.S.C. 102(b) as being anticipated by Sykes (US Patent number 3,993,583).

Sykes discloses an apparatus and method for diverting packages comprising a frame member (115) having a frame entrance (Figure 18, area between first set of right and left frame members 115, first and second frame members) and a plurality of frame exits (Figure 18, area between the second set of right and left frame members as well as through each right and left exit towards the conveyors 116 and 117, third and fourth frame members) adapted for use with an existing conveyor system (107, 116 and 117) for transporting an item in an original direction, at least one of the frame exits being perpendicular to the frame entrance (see Figure 18), a movable bi-directional diverting mechanism extending from the frame member (112), the movable diverting mechanism movable perpendicularly to the original direction of travel of the item being transported on the conveyor (107) and diverting the item in either a first direction or a second opposing direction with respect to the first direction, the movable diverting mechanism includes a single downwardly extending movable blade mechanism (110) extending

from the fifth frame member (112) moving within the frame to divert the item in either the first direction or the second opposing direction, the movable diverting mechanism is configured to remain stationary so that the item can pass therethrough (read column 1 lines 20-30), the blade mechanism (110) having first and second surfaces adapted for diverting the item and a longitudinal axis whereby the first and second surfaces face opposing directions or exits substantially perpendicularly to the original direction of travel of the item and the longitudinal axis is substantially parallel to the original direction of travel of the item and extending in a direction between the entrance and another of the exits, a moving mechanism including an actuator (113, 114) and a glide mechanism or a mounting mechanism (111) coupled to the blade mechanism (110) whereby the glide mechanism (111) extends across a frame member (112) for moving the movable diverting mechanism between opposing exits of the plurality of exits, a plurality or series of sensors (read column 18) for monitoring or controlling actions of the downward extending movable blade member (110), the sensors including a home sensor (136) for detecting a home position and a second or new home position (read claim 4) of the movable diverting mechanism, at least one over travel sensor (131R, 131L) for detecting an over travel position of the movable diverting mechanism, at least one sensor (126R, 126L) for detecting a flow of the items, an over current sensor (28R, 28L) for determining whether a current associated with the actuator (113, 114) exceeds a threshold limit (read claim 43), wherein an excessive current associated with the actuator indicates that the existing conveyor system should be stopped and momentary

contacts (136R, 136L) associated with a control box (29) arranged on the frame which provide an input signal to control the movement of the movable diverting mechanism.

Sykes also discloses a first leg and a second leg forming the entrance (Figure 18, area between first set of right and left frame members 115), a third leg and the first leg forming a first exit orthogonal to the entrance, a fourth leg and the second leg forming a second exit being orthogonal to the entrance (Figure 18, area between both right and left exit towards the conveyors 116 and 117) and the third leg and the fourth leg forming a third exit (Figure 18, area between second set of frame members 115 downstream on conveyor 107) being in alignment with the entrance.

Sykes also includes the method of diverting an item based on the control system and structural limitations discussed above.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was

not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 12 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sykes (US Patent number 3,993,583) in view of Torbet et al. (U.S. Patent number 3,246,733).

Sykes as disclosed above, fails to show hoods.

Torbet et al. does disclose a hood (26) having openings whereby the hoods are positioned at an entrance and each exit of the frame (see Figure 1).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to add the safety hoods of Torbet's invention to that of Sykes diverting mechanism in order to provide for a safety feature for the conveyor system arrangement and a safer environment for the employee's working with the conveyor system.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 13 and 27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sykes (US Patent number 3,993,583) in view of Torbet et al. (U.S. Patent number 3,246,733) and further in view of Cramer (U.S. Patent number 6,036,128).

Sykes as modified by Torbet et al., fails to disclose a safety hood comprising an interlock switch for detecting a position of the hoods and providing a signal to a controller for shutting down movement of the movable diverting mechanism when any of the hoods are in an upright position or positioning each safety hood at each exit and entrance via hinges.

Cramer does disclose an interlock switch located for a hood assembly (please read column 3 lines 57-67 and column 4 lines 1-11) and a hinge (31).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to add the interlocking switch as taught by Cramer to the safety hood of Sykes as modified by Torbet et al., in order to provide for an automated mechanical stop of the conveyor system for additional safety for when a worker needs to inspect within the hooded area of the conveyor system arrangement.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to position a separate safety hood at each entrance and exit of Sykes invention as a matter of design choice and user preference.

Claim 16 is rejected under 35 U.S.C. 103(a) as being unpatentable over Sykes (US Patent number 3,993,583) in view of Bonnet (US Patent number 6,189,702).

Sykes fails to explicitly show a photosensor.

Bonnet does disclose a photosensor (202).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify Sykes' sensor to be a photosensor as taught by Bonnet as they are considered to be functionally equivalent to one another. Utilizing a variety of sensors within a conveyor arrangement is considered to be well known in the art.

Claim 10 is rejected under 35 U.S.C. 102(b) as being anticipated by Sykes (US Patent number 3,993,583) in view of Lutz (US Patent number 6,769,536).

Sykes as disclosed above fails to disclose a modular conveyor frame.

Lutz does disclose a modular conveyor frame.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify Sykes' frame members to be a modular as taught by Lutz in order to provide for adjustable frame members within the conveying system. Providing for frame adjustability within conveyor systems allows for flexibility, portability as well as many other features, depending on the user's needs.

Response to Arguments

Applicant's arguments with respect to claims 1-22 and 24-27 have been considered but are moot in view of the new ground(s) of rejection.

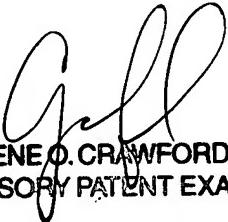
Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rashmi K. Sharma whose telephone number is 571-272-6918. The examiner can normally be reached on Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gene Crawford can be reached on 571-272-6911. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

rks



GENE O. CRAWFORD
SUPERVISORY PATENT EXAMINER

Application/Control Number: 10/076,347
Art Unit: 3651

Page 9